

S
370.113
P11VEI

VOCATIONAL EDUCATION INFORMATION

MONTANA SUMMARY DATA

VOCATIONAL EDUCATION

FISCAL YEAR 1979

Department of Vocational
and
Occupational Services

Prepared by

Office of Public Instruction
Georgia Rice, Superintendent
Vocational and Occupational Services
June, 1978

Forward

The following statistical data has been assembled from the Fiscal Year 1979 State Plan. The data presented is representative of the overall approach the state of Montana, through the State Board of Public Education, is taking toward Vocational Education.

The following highlights illustrate the kinds of information:

The total dollars available for vocational education in Montana for Fiscal Year 1979 are \$15,133,784.

For each dollar of federal funds expended in Montana there will be \$5.46 of state and local funds expended for vocational education in Montana.

There will be a total of 21,223 secondary, 2,104 postsecondary (college) and 8,751 adult and center students served in FY 1979. A total of 1,757 disadvantaged and handicapped students will be served in FY 1979. Total enrollment in vocational education programs will be 33,835.

A greater emphasis will be directed toward service to the Indian Reservations in Fiscal Year 1979.

The unemployment rate in Montana is at 7% as of April 1978.

The state should experience a slight increase in employment in those occupations directly related to the coal mining and energy-related industries.

Tables

- A. Sources of State Funds
- B. Foundation Program Calculations for Secondary Programs
- C. Fiscal Year 1979 Allocations of Federal Funds by Purpose
- D. Secondary Federal Funds
- E. Sources of Support for Fiscal Year 1979
- F. Projected Enrollment Summary for FY 1979
- G. Indian Reservation Unemployment and Dropout Data
- H. Statistical Population to be Served
- I. Statewide Employment by Industry
- J. State Administration Chart for Vocational Education in Montana
- K. Roster of Montana Board of Public Education
- L. Directory of Department of Vocational and Occupational Services, Office of Public Instruction

TABLE A

SOURCES OF STATE FUNDS

State support for vocational education programs at the secondary level is comprised of the general fund allocation (Refer to Figure 4) and the State Foundation Program (Figure 5).

Figure 4

House Bill 145/45th Montana Legislature

	1978		1979	
	<u>General*</u>	<u>Appropriated**</u>	<u>General</u>	<u>Appropriated</u>
Five Vocational Technical Centers	\$3,435,682	\$1,700,256	\$3,607,039	\$1,772,147
Secondary and Other Vocational Education	494,943		247,472	
		(Not specified in HB 145)***		(Not specified in HB 145)***

*General--State general funds appropriated.

**Appropriated--Federal, student fees and local millage funds appropriated.

***HB 145. Section 7. Other appropriated funds. Unless otherwise indicated herein, the appropriations made under the column heading, "Other Appropriated Funds," are from funds within the earmarked revenue fund, the federal and private revenue fund, and the revolving fund that accrue under provisions of law to the expending agency.

TABLE B

Figure 5

Increased State Funds from Foundation Program to
High School to Support Vocational Education

Known:	1.	High School ANB	1976-77	57,967
	2.	High School F. P.	"	54,149,892
	3.	High School State Permissive	"	6,330,218
	4.	Maximum General Fund Budget Without a Vote Raised		7%
	5.	The number of high school students in vocational programs for 1976-77 are 24,860 (6,215 FTE).*		
Assumed:	1.	The ANB for high schools in 1977-78 will be the same as in 1976-77.		
	2.	The number of students in vocational education will remain at the same ratio of ANB as they were in 1976-77.		
	3.	The amount of state permissive funds paid to high school districts will also raise by 7%.		
	4.	While most vocational education classes run from 1 to 2 hours in length, we will use 1½ hours in a 6-hour school day as our norm.		
	5.	The vocational education programs in the high schools receive their portion of state funds on the basis of the time ratio: 1.5/6.0 of the funds to each ANB for those ANB engaged in vocational education programs.		

*This is the unduplicated count including only those partially
funded with state funds.

TABLE B

It is important to note that the foundation program was increased to \$140,711,170 for fiscal year 1978, an 11.8 percent increase from the \$125,813,927 appropriated for fiscal year 1977. This resulted in an increase of \$471,555 for vocational education at the secondary level. This amount was determined by the process outlined in Figure 6.

Figure 6

CALCULATIONS:

$$\frac{\$54,149,892 \text{ F.P.} + \$6,330,218 \text{ Perm.}}{57,967 \text{ ANB}} + \$1,043.35 \text{ Per ANB in 1976-77}$$

$$\$1,043.35 \times 0.07 = \$73.03 \text{ raise per H.S. ANB for 1977-78}$$

$$\frac{24,860 \text{ (Vo-Ed Students)}}{1.5 \text{ (hours)}} \times \frac{x}{6.0} = 6,215 \text{ F.T.E.}$$

$$6215 \text{ F.T.E.} \times \frac{187}{180} = 6457 \text{ ANB}$$

$$6457 \times \$73.03 = \$471,555$$

Fy 1978 1st Year - \$471,555 new state support dollars to vocational education high school programs.

$$\$1,043.35 + \$73.03 = \$1,116.38$$

$$\$1,116.38 \times 0.07 = \$78.15$$

$$6,457 \times \$78.15 = \$504,615$$

FY 1979 2nd Year - \$504,615 new state support dollars to vocational education high school programs.

TABLE C

Fiscal Year 1979 Allocation of Federal Funds by Purpose

	<u>Sub Part 2 Instructional Programs</u>	<u>Sub Part 3 Support Services</u>	<u>Total</u>
Disadvantaged Programs	\$ 336,490	-\$ 84,122	\$ 420,612
Handicapped Programs	168,245	42,061	210,306
Postsecondary	883,019	-0-	883,019
Sex Bias Requirement	50,000	-0-	50,000
State Administration	180,000	45,000	225,000
Secondary Allocation	63,693	-0-	63,693
Displaced Homemakers	1,000	-0-	1,000
Guidance Services	-0-	84,122	84,122
Research)			
Exemplary)			
Curriculum Development)			
Teacher Training)			
	-0-	165,307	165,307
Sub-total	1,682,447	420,612	2,103,059
Sub Part 4 Special Programs for the Disadvantaged			78,008
Sub Part 5 Consumer & Homemaking			159,893
1/3 to depressed areas		(53,298)	
GRAND TOTAL			2,340,960

SECONDARY FEDERAL FUNDS

	<u>FY 1975</u>	<u>FY 1976</u>		<u>FY 1978</u>	<u>FY 1979</u>
Basic Grant, Part B	1,705,379	1,683,661	Sub Part 2	1,675,303	1,675,303
Secondary Expenditures, including carryover Part B	764,226	567,285	Secondary Expenditures, including carryover Sub Part 2	748,914	567,285

SOURCES OF FUNDS FOR SECONDARY FROM 1978-1979 BASIC GRANT

1978

1979

1977 Carryovers

102b disadvantaged	46,028.94
Disadvantaged	70,113.21
Handicapped	108,120.00

1978 Funds

Handicapped	167,531.00
Disadvantaged	335,061.00
Sub Part 2	<u>22,060.00</u>
	748,914.00

1979 Funds

Handicapped	168,245
Disadvantaged	336,489
Sub Part 2	<u>63,693</u>
	568,427

SOURCES OF SUPPORT FOR FISCAL YEAR 1979

	<u>FEDERAL</u>	<u>STATE</u>	<u>LOCAL</u>	<u>TOTAL</u>
1979 - Projected - Vocational Education Appropriation (secondary, centers, administration)	\$2,340,960.00	\$6,885,718.81	\$5,907,106.00	\$15,133,784.81
Also includes:				
Community Colleges (65/35)		227,165.00		
Northern Montana College		527,147.93		
University Units		499,660.00		
State Tax for Centers		483,200.00		
Foundation Program		976,170.00		
State Earmarked Revenue		144,734.00		
Firefighter		140,421.00		
State Institutions		206,906.82		
Specific Appropriation		4,151,869.00		

TABLE F

Projected Enrollment Summary for FY 1979

<u>Program</u>	<u>Secondary</u>	<u>Postsecondary</u>	<u>Centers & Adult</u>
Agriculture	4643	37	165
Distributive Education	1206	231	250
Health Occupations	220	283	688
Consumer Homemaking	6477	0	1634
Wage Earning Homemaking	1340	0	30
Technical Education	0	474	174
Trade & Industrial Ed.	5515	718	3716
Business & Office Ed.	<u>1822</u>	<u>361</u>	<u>2094</u>
	21,223	2,104	8,751
Total Disadvantaged and Handicapped			1,757
Total FY 79 Projected Enrollment			33,835

TABLE G

Unemployment Rates for Indian
Reservations in Montana, April 1978¹

	<u>Percentage Unemployed</u>
Blackfeet	
Crow	55.69
Flathead	50.0
Fort Belknap	61.74
Fort Peck	31.30
Northern Cheyenne	
Rocky Boys	53.17

Years of school completed by Indian
population 25 years and older in Montana
by urban residence and reservation²

	<u>Total Population</u>	<u>% of H.S. Graduates</u>
Blackfeet	1825	27.2
Crow	1209	27.9
Flathead	1096	29.9
Fort Belknap	406	19.9
Fort Peck	1226	23.2
Northern Cheyenne	877	23.9
Rocky Boys	388	25.7

¹Report of Labor Force April 1978, Bureau of Indian Affairs, Billings.

²Profile of the Montana Native American, August 1974.

TABLE H

STATISTICAL POPULATION TO BE SERVED¹

The estimated total general population of Montana in 1977 is approximately 760,000, with an estimated growth rate of approximately $1\frac{1}{2}$ to 2 percent each year through 1982. Characteristics of the population include a male population of slightly under 50 percent and a female population of slightly over 50 percent. Negro, Spanish American, Indian and Oriental persons comprise 5.5 percent of the total population with the remaining 94.5 percent Caucasian. The urban population currently totals 53 percent and is projected to increase to over 55 percent of the population by 1982.

The population aged 16-25 in Montana numbers slightly above 12 percent of the total population of the state, with the age group 16-21 representing a disproportionately high percentage of this group. It is assumed that this 16-21 age group is predominantly furthering their education and gaining work experience within the state. 1970 census figures indicate that between the ages of 22 and 25 a high percentage of the group leaves the state for further training, employment, etc. The census also indicates, however, that within five years the population of the state regains a normal distribution pattern through return of these leavers, and normal in-migration from other states.

The special needs population of Montana is over 11 percent of the total population. The disadvantaged comprise over 63 percent of the special needs population with persons with handicapping conditions forming the remaining 37 percent of this group.

Secondary school enrollments for grades 9-12 represent 7.5 percent of the total population of the state. This figure is expected to peak in fiscal years 1978 and 1980 and will decrease in 1979 and 1981, to a low point of 54,000 in fiscal year 1982.

Postsecondary enrollments currently comprise 4.5 percent of the total population of Montana. This figure is expected to remain relatively steady during the five year planning period, with little growth in either vocational-technical center or college enrollments.

¹Statistical summaries provided in the narration are from Table I unless otherwise indicated.

TABLE I
STATISTICAL POPULATION TO BE SERVED

Population Factors or Characteristics	Latest Available Data	ESTIMATED				
		FY 78	FY 79	FY 80	FY 81	FY 82
1. General Population						
Total						
Population ¹	760,513	771,377	782,396	793,573	804,909	816,407
Male	377,195	382,583	388,048	393,591	399,214	404,916
Female	383,318	388,794	394,348	399,982	405,695	411,591
Negro	2,183	2,214	2,245	2,278	2,310	2,343
Spanish						
American	8,441	8,562	8,684	8,808	8,934	9,062
Indian	29,713	30,137	31,314	32,538	33,809	35,130
Oriental	1,202	1,210	1,220	1,231	1,245	1,258
Other	718,974	687,131	738,933	748,718	758,611	768,614
Urban	403,071	408,830	418,582	428,529	438,675	449,024
Rural	357,442	362,547	363,814	365,044	366,234	367,383
2. Population ¹						
Age 16-25						
Total Population						
Age 16-25	94,177	95,522	96,887	98,271	99,675	101,099
Male	46,712	47,379	48,056	48,743	49,439	50,145
Female	46,465	48,143	48,831	49,528	50,236	50,954
Negro	270	275	279	284	293	302
Spanish						
American	1,045	1,059	1,075	1,090	1,106	1,122
Indian	3,679	3,731	3,785	3,839	3,888	3,936
Oriental	149	151	153	155	158	160
Other	89,034	90,306	91,595	92,903	94,230	95,579
3. Special Needs ¹						
Population						
Total Special						
Needs Population	84,776	86,032	86,824	87,531	88,295	89,201
Disadvantaged	53,497	54,188	54,921	55,402	55,960	56,611
Handicapped	31,279	31,500	31,903	32,129	32,335	32,590
Bilingual/ Limited English- speaking	Not Available	1,341	1,000	1,000	1,000	1,000

TABLE I (Continued)
STATISTICAL POPULATION TO BE SERVED

Population Factors or Characteristics	Latest Available Data	ESTIMATED				
		FY 78	FY 79	FY 80	FY 81	FY 82
4.Secondary School Enrollment ²						
Total Secondary Enrollment	56,896	57,709	56,533	57,369	56,217	54,077
Male	29,122	29,538	28,957	29,385	28,819	28,059
Female	27,774	28,171	27,567	27,984	27,389	26,018
Negro	163	166	168	170	173	175
Spanish						
American	632	641	450	559	568	578
Indian	2,223	2,255	2,187	2,120	2,053	2,086
Oriental	90	91	92	93	95	97
Other	53,788	54,556	54,036	54,727	53,528	51,441
5.Post-Secondary School Enrollment ³						
Total Post- Secondary School Enrollment	33,829	34,312	34,802	35,300	35,804	36,315
Male	19,283	19,558	19,810	20,083	20,366	20,615
Female	14,546	14,754	14,992	15,217	15,438	15,700
Negro	97	98	100	101	103	105
Spanish						
American	375	380	386	391	397	403
Indian	1,321	1,340	1,359	1,378	1,398	1,418
Oriental	53	54	55	55	56	57
Other	31,983	32,440	32,902	33,375	33,850	34,331

¹Montana Data Book, Montana Department of Planning and Economic Development. 1975.

²Montana Public School Enrollment Data, Office of Public Instruction, 1976.

³Commissioner of Higher Education's, and Office of Public Instruction's, enrollment reports, 1976.

TABLE I

STATEWIDE EMPLOYMENT BY INDUSTRY¹

The civilian labor force in Montana numbers approximately 323,600 or 45.5 percent of the total population.

Non-farm wage and salary jobs comprise 75.5 percent of the total labor force with salaried farm jobs making up the remaining 24.5 percent.

Employment in the Mining Industry experienced an overall reduction of 14.8 percent during the past year with further reductions expected in metals mining over the next few years. The employment of coal miners was reduced by 33.3 percent between 1976 and 1977, but is expected to gradually increase over the next few years with the emerging national emphasis on coal production as an alternative energy source.

The greatest areas of growth in employment over the past year were in manufacturing, services, and wholesale and retail trade. Wholesale and retail trade is the second largest employer in the state with 18.6 percent of the current total non-farm labor force. If Montana follows national trends, this area should experience growth during the next decade.² Although it comprises only 7.2 percent of the labor force, Manufacturing experienced a growth of 8.7 percent in the past year, primarily in industries involved in the production of durable goods. The Services Industry, representing 14.7 percent of the total non-farm labor force, experienced a growth of 6 percent in fiscal year 1977, with the greatest increase in the area of hotels and other lodging service workers.

Government, the largest employment group in the state with 21 percent of the total non-farm labor force, increased only 1.2 percent during the past year. Employment in colleges, universities and local education agencies recorded decreases this previous year, while state and local government recorded only a moderate increase.

¹Statistical summaries provided in the narration are from Table III unless otherwise indicated.

²Occupational Manpower and Training Needs, U.S. Department of Labor, Bureau of Labor Statistics, 1974.

CURRENT AND FUTURE JOB NEEDS^a

OE CODE/DOT	Current Employment	Expansion and Replacement Needs 1979	PROJECTED SUPPLY FROM ALL SOURCES ^b	
			Vocational Education 1979	Other Sector 1979
01.0000 AGRICULTURAL EDUCATION				
01.0100 Agri. Production	31,900	1,080	446	47
01.0200 Agri. Supplies & Services	890	30	18	12
01.0300 Agricultural Mechanics	900	40	28	25
01.0500 Ornamental Horticulture	260	10	6	0
01.0700 Forestry	2,350	80	46	46
04.0000 DISTRIBUTIVE EDUCATION				
04.0100 Advertising	4,250	160	0	0
04.0200 Apparel & Accessories	2,150	N/A	8	0
04.0400 Finance and Credit	3,555	215	2	1
04.0600 Food Distributing	2,440	100	2	7
04.0700 Food Services	3,545	1,210	8	54
04.0800 General Merchandise	8,000	N/A	341	12
04.0900 Hardware, Bldg. Materials	3,670	167	0	27
04.1100 Hotel and Lodging	6,750	650	8	29
04.1500 Personal Service	N/A	N/A	2	7
07.0000 HEALTH OCCUPATIONS				
07.0101 Dental Assistant	430	50	35	0
07.0102 Dental Hygienist	40	5	0	1
07.0203 Medical Lab. Aide	N/A	70	10	0
07.0301 Nurse Asso. Degree	3,070	240	0	65
07.0302 Practical Nurse	1,420	120	180	50
07.0303 Nurse Assistant	3,900	405	163	155
07.0305 Surgical Technician	65	20	15	0
07.0402 Physical Therapy Aide	N/A	N/A	0	0
07.0903 Inhal. Therapy	65	25	11	0
07.0904 Medical Assistant	600	50	0	0
07.0907 Medical Emergency Technician	680	70	0	15
07.9900 Ward Clerk/Med. Records Tech.	N/A	N/A	25	0
09.0200 WAGE EARNING HOME ECONOMICS				
09.0201 Care & Guidance of Children	5,140	430	148	0
09.0202 Clothing Management Prod.	910	80	46	0
09.0203 Food Management	310	N/A	203	25
09.0299 Other (HERO) Multi-Occupations	N/A	N/A	78	0

a - Refer to Page

b - Refer to Page

N/A - Not available

CURRENT AND FUTURE JOB NEEDS^a

Current Employment	Expansion and Replacement Needs 1979	PROJECTED SUPPLY FROM ALL SOURCES	
		Vocational Education 1979	Other Sector 1979

b

OE CODE/DOT

14.0000	OFFICE OCCUPATION				
14.0100	Accounting & Comp.	8,950	510	155	92
14.0201	Business Data Processing	400	45	108	47
14.0300	General Office Clerical	4,415	465	450	47
14.0700	Steno, Secretarial & Related	10,435	1,380	590	345
14.0900	Typing	3,030	240	388	170
14.9900	Other-Post. Sec. Bus.; Reprographics & Para Legal	N/A	N/A	10	2
16.0000	TECHNICAL EDUCATION				
16.0106	Civil Technician	N/A	N/A	13	10
16.0107	Electrical Technician	305	15	19	4
16.0109	Electro-Mechanical	N/A	N/A	25	0
16.0601	Commercial Pilot	N/A	N/A	16	N/A
16.0699	Energy Technician	N/A	N/A	0	0
17.0000	TRADES AND INDUSTRY				
17.0100	Air Conditioning	475	25	15	0
17.0200	Appliance Repair	520	25	10	11
17.0301	Body and Fender	2,200	25	19	68
17.0302	Mechanics-Auto	7,950	180	163	130
17.0400	Air Frame/Power Plant Maintenance	375	15	23	3
17.0700	Commercial Art Occup.	595	35	2	0
17.0900	Photography	N/A	20	8	0
17.1001	Carpentry	5,930	100	89	207
17.1002	Electricity	1,825	55	10	120
17.1003	Heavy Equipment Operation	3,070	155	32	0
17.1200	Diesel Mechanic	N/A	40	44	19
17.1300	Drafting	680	30	114	4
17.1500	Electronics Occup.	500	20	74	10
17.1900	Graphic Arts	785	15	14	2
17.2102	Watch & Precision Instrument Repair	115	5	6	0
17.2302	Machine Shop	760	20	70	0
17.2306	Welding and Cutting	1,620	60	174	2
17.2700	Plastics Occupations	N/A	N/A	2	0
17.2900	Quality Food Occupations	17,350	1,125	27	0
17.3100	Small Engine Repair	N/A	90	85	6
17.9900	Other	N/A	N/A	25	0

a - Refer to Page

b - Refer to Page

N/A - Not available

STATE ADMINISTRATION ORGANIZATION CHART FOR VOCATIONAL EDUCATION IN MONTANA

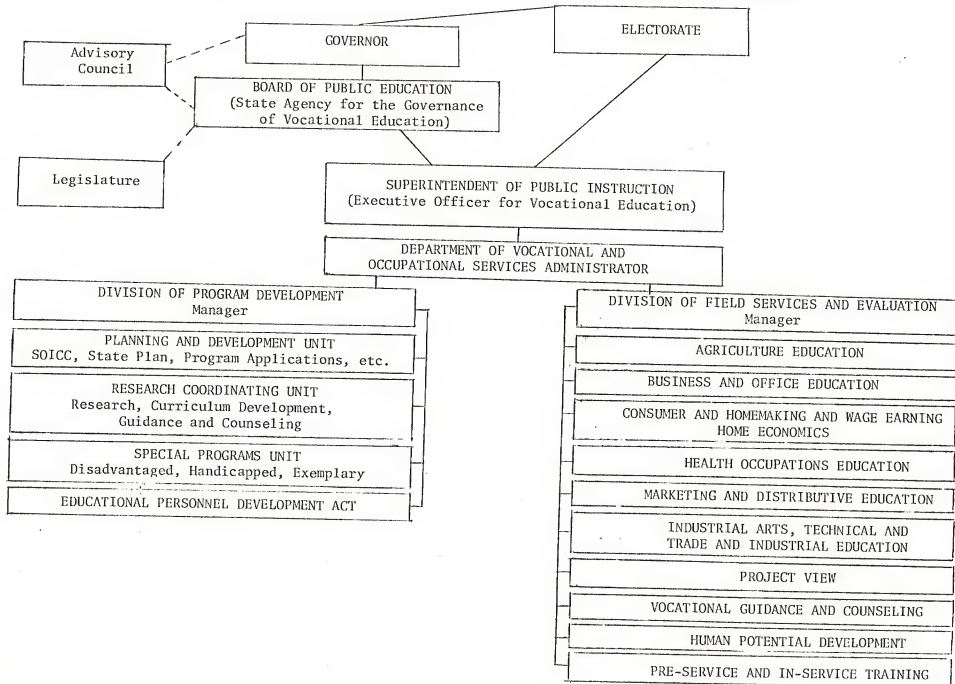


TABLE J

TABLE K

MONTANA BOARD OF PUBLIC EDUCATION

<u>Name</u>	<u>Home Address and Telephone Number</u>
Thomas L. Judge Governor, State of Montana (ex officio member)	2 Carson Helena, MT 59601
Georgia Rice Superintendent of Public Instruction (ex officio member)	P.O. Box 947 Helena, MT 59601
Dr. Lawrence K. Pettit Commissioner of Higher Education (ex officio member)	109 South Montana Avenue Helena, MT 59601 442-9637
Earl Barlow	P.O. Box 216 Browning, MT 59417 338-7497
George A. Johnson	2734 Dawn Drive Great Falls, MT 59401 453-1519
Carolyn Frojen	235 East Beckwith Missoula, MT 59801 543-6228
Allen D. Gunderson	P.O. Box 926 Billings, MT 59102 656-5347
Marjorie W. King	P.O. Box 177 Winnett, MT 59087 429-7831
Harriett C. Meloy	1317 Ninth Avenue Helena, MT 59601 442-8112
Enid O'Leary	Star Route 36, Box 12 Havre, MT 59501 265-2363

DIRECTORY
 DEPARTMENT OF VOCATIONAL AND OCCUPATIONAL SERVICES

<u>Name</u>	<u>Title</u>	<u>Specific Area(s) of Responsibility</u>	<u>Address</u>	<u>Telephone</u>
Larry Key	Administrator/Director	Departmental Supervision and Administration of Postsecondary Centers	State Capitol	449-3126
Larry Johnson	Manager	Secondary Programs, Research Coordinating and Planning EPDA Fellowships, State Plan	State Capitol	449-2087
Betty Lou Hoffman	Manager	Field Services, Evaluation, Teacher Training	State Capitol	449-3126
Leonard Lombardi	Consultant	Agriculture Education and FFA	State Capitol	449-3126
Bill Fife	Consultant	Business and Office Education and OEA	State Capitol	449-2087
Vacant	Consultant	Health Occupations Education	State Capitol	449-2087
Flora Martin	Consultant	Consumer and Homemaking Education and Wage Earning Home Economics	State Capitol	449-2087
Jeff Wulf	Consultant	Trade and Industrial Education, Technical Education, Industrial Arts, and VICA	State Capitol	449-2087
Gary Bores	Consultant	Marketing and Distributive Education, Cooperative Education, and DECA	State Capitol	449-2087
Jim Golden	Consultant	Special Needs (Disadvantaged and Handicapped), Exemplary Programs	State Capitol	449-2087
Sara (Sally) Moore	Consultant	Human Potential Development Consultant, Displaced Homemakers	State Capitol	449-2087

DIRECTORY (Continued)
DEPARTMENT OF VOCATIONAL AND OCCUPATIONAL SERVICES

<u>Name</u>	<u>Title</u>	<u>Specific Area(s) of Responsibility</u>	<u>Address</u>	<u>Telephone</u>
Montez Briggs	Vocational Guidance Assistant	Project VIEW (Vital Information for Education and Work)	State Capitol	449-2087
Neal Christensen	Consultant	Vocational Guidance and Counseling	State Capitol	449-2080